



Resilience - Are you Ready?

*A Seminar presented by the VA AWWA Drinking Water
Quality and Research Committee
in collaboration with the
Water Resources and Environment Committee*

**Wednesday, March 20, 2019
8:00 am - 4:00 pm**

**University of Richmond
Jepson Center
Richmond, VA**



**American Water Works
Association**

VirginiaSection

Program Schedule

** CPE/CEC credits Approved - 5.75 hours **

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| 8:00 - 8:30 am | Registration/Continental Breakfast/Networking |
| 8:30 - 8:45 am | Keynote Address <i>Dwayne Roadcap, Virginia Department of Health (VDH), Office of Drinking Water</i> |
| 8:45 - 9:00 am | VDH-ODW Harmful Algal Bloom Plan <i>Aaron Moses, Virginia Department of Health (VDH), Office of Drinking Water</i> |
| 9:00 - 9:30 am | Regulatory Updates and Trends Important to Water System Resiliency <i>Steve Via, American Water Works Association (AWWA)</i> |
| 9:30 - 10:00 am | America's Water Infrastructure Act - New Risk Assessments and Emergency Response Plan Requirements <i>Karen Edwards-Lindsey, EPA Water Security Division</i> |
| 10:00 - 10:15 am | Break |
| 10:15 - 11:00 am | AWIA of 2018 - Positioning Your Utility for Long-Term Resilience <i>Corinne Ketchum and Ryan Joyce, Arcadis</i> |
| 11:00 - 11:45 am | Factors Affecting Uncertainty of Future Water Supply and Quality <i>Dr. Stephen H. Schoenholtz, Director of the Virginia Water Resources Research Center, Virginia Tech</i> |
| 11:45 - 12:30 pm | Lunch (provided) |
| 12:30 - 1:15 pm | PFAS Treatment Strategy for a Surface Water Treatment Plant <i>Carel Vandermeijden, Cape Fear Public Utility Authority</i> |
| 1:15 - 2:00 pm | Release of Intracellular Cyanotoxins during Oxidation of Naturally Occurring and Lab-cultured Cyanobacteria <i>Dr. Katie Greenstein, Des Moines Water Works</i> |
| 2:00 - 2:15 pm | Break |
| 2:15 - 3:00 pm | Preparing for and Recovering from Extreme Weather Events - City of Houston Lessons Learned <i>Yvonne Forrest, Houston Water</i> |
| 3:00 - 3:45 pm | How the Smart Cities Efforts of Newport News Waterworks Enhances Resiliency in the Region <i>Louis Martinez, Newport News Waterworks and Jessica Hou, Gannett Fleming</i> |
| 3:45 - 4:00 pm | Conclusions, Q&A, Seminar Wrap-up |

Speaker Bios

◆ **Dwayne Roadcap**, REHS, LPSS, AOSE, is the Director of the Virginia Department of Health (VDH) Office of Drinking Water. Mr. Roadcap has over 20 years of experience with environmental programs in Virginia, and previously served multiple roles with the Office of Environmental Health Services.

◆ **Aaron Moses** is the Field Services Engineer at the Virginia Department of Health, Office of Drinking Water. He manages ODW's permitting program and Sanitary Survey (inspection) program, works with ODW field directors to develop and implement performance metrics, and lead the effort to develop an ODW Harmful Algal Bloom Plan.

◆ **Steve Via** is Director of Federal Relations for the American Water Works Association (AWWA) working in AWWA's Washington, D.C., office. Mr. Via's primary responsibilities are two-fold: working with the EPA and other federal agencies on the development of policy and regulations that affect the water sector; and communicating the basis and substance of federal policy and regulations to the water sector.

◆ **Karen Edwards-Lindsey** is an Environmental Protection Specialist with the U.S. Environmental Protection Agency. She currently works in the Water Security Division as the project lead on multimedia outreach to the Water Sector and key stakeholders. Karen also works on other projects to raise the awareness among other critical sectors, at local and state levels, about the importance of water and its role as a lifeline sector.

◆ **Corrine Ketchum** is the Utility Resilience Lead for Arcadis, involved in the planning and design of security projects including risk assessments and physical security. Ms. Ketchum's experience includes Risk & Resilience assessments and physical security design, and she is also certified in J100 RAMCAP: Risk and Resilience Management of Water and Wastewater Systems.

◆ **Ryan Joyce** is a Senior Security Consultant with Arcadis specializing in security and resiliency planning. He is responsible for developing and implementing security assessment of sites and risk mitigation planning for overall resilience planning. He has 12 years of experience in project management and security operations.

◆ **Dr. Stephen H. Schoenholtz** is Director of the Virginia Water Resources Research Center and Professor of Forest Hydrology and Soils at Virginia Tech. As Director of the VWRRC, he oversees a federally- and state-funded water research center whose mission is to facilitate collaborative research, extension, and education programs to develop solutions to water resource challenges. His research and teaching program focuses on interactions between land management and water and soil resources.

◆ **Carel Vandermeiden** is the Director of Engineering for the Cape Fear Public Utility Authority (CFPUA) in Wilmington, NC. He is responsible for the day-to-day activities of the Engineering Department, including the development and implementation of the Authority's Capital Improvement Program for water and wastewater infrastructure.

◆ **Dr. Katie Greenstein** worked as a post-doctoral researcher in Applied Water Quality at the Southern Nevada Water Authority in Las Vegas, Nevada before moving to Des Moines, Iowa in 2018. She is a licensed Professional Engineer and is currently working as a chemist at Des Moines Water Works.

◆ **Yvonne Forrest**, Director of Houston Water is responsible for the operation and maintenance of the City of Houston's regional water and wastewater utility systems. She also oversees Regulatory Compliance, Infrastructure Planning and Operations/Program Support. She manages a staff of over 1,700 with an annual capital and operations and maintenance budget of over \$657 million.

◆ **Louis Martinez** is the Director of Waterworks for the City of Newport News overseeing a population service area of over 400,000, and a staff of more than 350. Mr. Martinez has more than 20 years of experience in municipal utilities and is currently initiating a system wide three-phased Advanced Metering Infrastructure (AMI) Project. He most recently was the director of operations and maintenance for Lake Havasu, Arizona.

◆ **Jessica Hou** is a Vice President with Gannett Fleming, serving Virginia water clients. She is a Board-Certified Environmental Engineering in Water Supply and Wastewater and is an Envision Sustainability Professional. She is active in professional societies including Virginia AWWA and VWEA and is Past Chair and Research Committee Chair for the Department of Civil and Environmental Engineering at Old Dominion University.

Register Online

<https://www.vaawwa.org/Events/resilience-are-you-ready>

Credit card registration accepted online only

Registration Form

(can be mailed in to VA AWWA if unable to register online – all registrations by mail must be paid by check)

Name: _____

Job Title: _____

Company: _____

Mailing Address: _____

Email Address: _____

Work Telephone: _____ AWWA Membership #: _____

Registration Information **

Early Registration (Registration by March 13, 2019)

- \$150.00 AWWA Member rate
- \$200.00 Non-member rate
- \$50.00 Retirees
- \$25.00 Full-time Students

**** Event Sponsorship opportunities are available and may be selected during online registration.**

Late/On-site Registration (Registration after March 13, 2019)

- \$165.00 AWWA Member rate
- \$220.00 Non-member rate
- \$70.00 Retirees
- \$45.00 Full-time Students

If mailing a check, make payable to VA AWWA and send to:

VA AWWA
Attn: Geneva Hudgins
PO Box 11992
Lynchburg, VA 24506

No Faxed or emailed registrations will be accepted.

Jepson Center University of Richmond

49 Crenshaw Way
Richmond, VA 23173

The Jepson Alumni Center is conveniently located on the edge of the campus of the University of Richmond, just inside the Westhampton Gate. Complimentary parking is available immediately adjacent to the building. View the building on the [campus map](#).



For further information, contact: Jay Maggi - jay.maggi@jacobs.com, 757.671.6229
or Michele Maclauchlan - mac070@henrico.us, 804.727.8711